Look Back

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Eddy and Izzy record the total number of books borrowed by students each day from the library in the last 20 days.

Izzy's record:

tally marks

Numbers of books	Tally	frequency
25	/	1
26	/	1
27	////	4
28	/	1
29	//	2
30	/	1
31	//	2
33	//	2
34	/	1
37	/	1
38	/	1
41	/	1
42	//	2

Eddy's record:

Number of books

41 27 42 42
27 31 27 29
30 33
34 29 38
27 25 37 33
31 26 28

Compare their records.
Whose record is easier to read?
Convince your partner.

Izzy's record is easier to read.
It is organised neatly in a table. The numbers are in order and the tally marks show how many times each data occurs.

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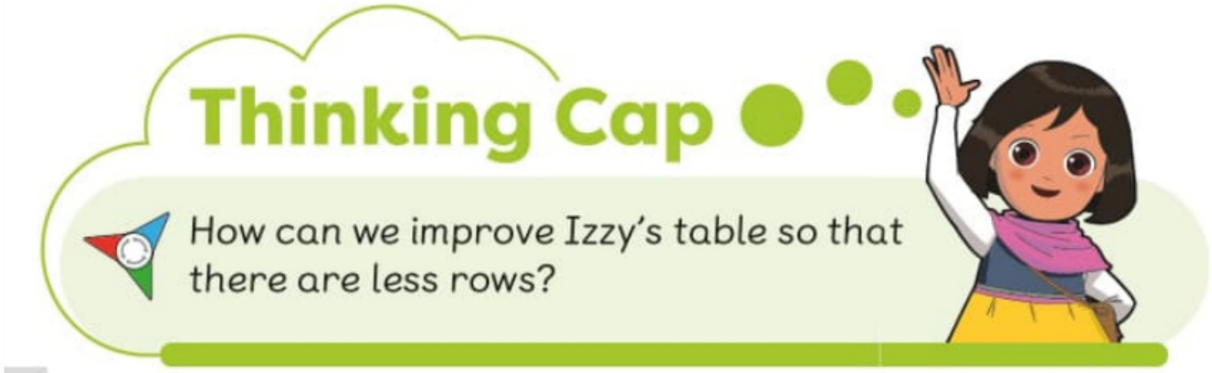

The table can be improved by grouping the data together,
for example: 25 to 27 books,
28 to 30 books,
31 to 33 books
34 to 36
37 to 39
40 to 42

or 25 to 30
31 to 36
37 to 42

Let's Learn

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a The table below shows number of boxes of cookies sold by 20 children.

22	32	29	16	20
30	26	34	29	18
33	27	17	25	18
24	15	25	26	34

How can you sort these values on a grouped frequency table?

Step 1: Arrange the data from smallest to greatest. Then find the smallest and greatest value and decide on a group size.

You can use groups of 5, 10 or 20 as they are easy to work with.

Step 2: Put the data values into the correct groups using tally marks.

Step 3: Count the number of tally marks for each group. Then write the number in the frequency column.

22	32	29	16	20
30	26	34	29	18
33	27	17	25	18
24	15	25	26	34

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𝍸 means 5 data.
Frequency is the number of times a data appears.

Boxes of cookies sold	Tally	Frequency
15 – 19	𝍸	5
20 – 24	///	3
25 – 29	𝍸 //	7
30 – 34	𝍸	5

number of children

There are 4 intervals in total. Each interval has 5 values

Look at the last row in the table.

5 children sold 30 to 34 boxes of cookies.

Most children sold between 25 to 29 boxes of cookies.

Look for the highest frequency.

Let's Practise

Student's Book p. 164

total

1 Here are the test scores of 21 students in a class.

26	11	16	35	44	37	42
47	49	45	36	33	19	35
45	38	42	38	37	32	25

a Complete the grouped frequency table below.

look at the tens place

number of students

Score	Tally Marks	Frequency
10-19	///	3
20-29	//	2
30-39	𝍸 ////	9
40-49	𝍸 //	7

b How many students scored between 20 to 29 points? 2

c What fraction of the class scored more than 40 points? $\frac{7}{21} = \frac{1}{3}$

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2 The table below shows the sunflowers Emma picks in 30 days.

a Complete the table.

number of days

Number of sunflowers	Tally Marks	Frequency
0-19	////	4
20-39	##### /	11
40-59	### ////	9
60-79	### /	6

b On how many days did Emma pick more than 39 sunflowers? 15

c From the table above, can you tell how many sunflowers Emma picks altogether? Convince your partner. No

The values are grouped so we don't know the actual value in each interval